

10. Assessment Focus Giada surveyed her classmates to find out which sport they participated in. She drew these graphs.

Boys' Participation

Girls' Participation

a) What impressions do these graphs give?

b) Describe how the graphs create a false impression.

c) What features of the graphs make it seem that the girls participate in sports more than the boys?

d) How could the graphs be changed to present the data accurately?

e) Suggest a different graph that could be used to accurately display these data.

Sep 27-7:03 PM

11. This graph was used by a sales manager at the Dust Destroyer Vacuum Cleaner Sales Company. She said that sales had increased greatly in 5 years.

This table shows the actual data.

Annual Sales	
Year	Sales (\$1000s)
2002	15 450
2003	15 550
2004	16 000
2005	16 300
2006	16 600
2007	16 800

a) How is the graph misleading?

b) What changes could you make to the graph to display these data accurately?

Sep 27-7:04 PM

14. The graphs show how two students spend their allowance. From these graphs, a student concluded that Mark spends more money on movies than Tina does.

a) From the graphs, can you tell which student spends more money on movies? Why or why not?

b) Which type of graph could you use to display these data accurately?

How Students Spend Their Allowance

Mark Graph A

Tina

16. Take It Further Draw a graph to show how the data in the table below can be displayed in each way.

Submarine Sandwich Sales at Submarine Sue's

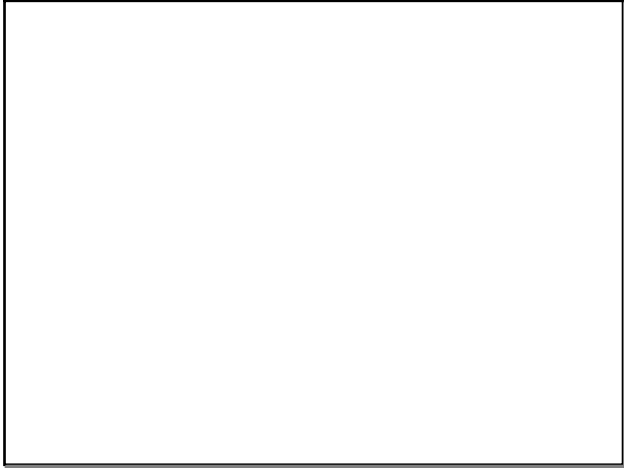
Type	Mean Daily Sales
Pizza	275
Assorted	200
Veggie	260
Meatball	250

a) The pizza submarine is by far the most popular sandwich.

b) About an equal number of each type of submarine are sold daily.

c) Very few assorted submarines are sold. Explain how you created each impression.

Sep 27-7:05 PM



Sep 27-7:05 PM